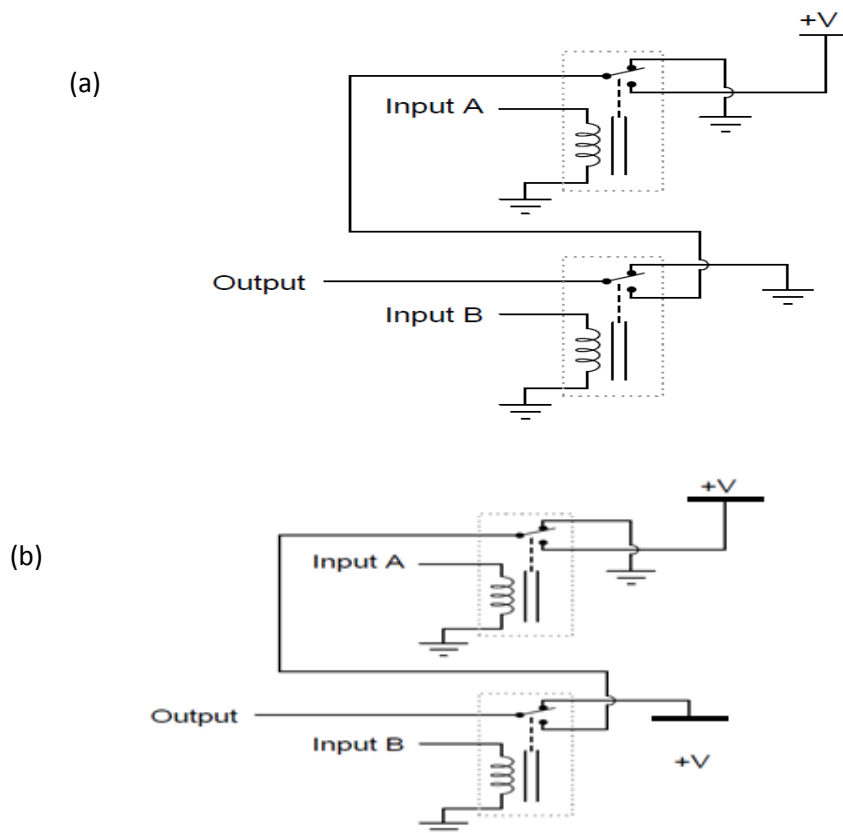


Sheet (2)

- 1- What is meant by solenoid? Give examples of devices used it.
- 2- What is the relay? Describe with draw its operation.
- 3- Explain with draw the relay connection with any 220V load.
- 4- The following relay circuits simulate a standard digital logic gate function:



Write a truth table for these circuits.

- 5- Explain the control action using PLC in escalators.
- 6- Show the main difference between user memory and system memory used in PLC.
- 7- Explain how the power supply has the function of supplying well-regulated power and protection for other PLC system components.